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A new species and new record of the leafhopper genus *Seriana* Dworakowska (Hemiptera, Cicadellidae, Typhlocybinae) from China

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Abstract

Seriana menglaensis **sp. n.** (Hemiptera: Cicadellidae: Typhlocybinae: Erythroneurini) is described and illustrated from Southwest China. *S. equata* (Singh, 1969) is recorded for the first time from China.

Keywords

Hemiptera, morphology, taxonomy

Introduction

The leafhopper genus *Seriana* was established by Dworakowska (1971) in the tribe Erythroneurini of Typhlocybinae with *Seriana frater* Dworakowska, 1971 as the type species. *Seriana* consists of thirty-three species in the world distributed in Oriental and Palaearctic regions. The genus can be distinguished by the body fuscous, the crown usually with median dark patch on anterior margin of vertex, the pronotum with five

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oval grey impressed patches near anterior marign; the pygofer hind margin acutely produced, with oblique dorsolateral internal ridge and basolateral setae in distinct group and the pygofer dorsal appendage not movably articulated; the subgenital plate pocket-like apically, with 2–4 basal macrosetae and several short rigid setae on upper margin subbasally; the style apex truncate; the aedeagus usually with pair of processes and the connective nearly Y-shaped.

Only two species, *S. indefinita* Dworakowska, 1971 from Guangzhou and *S. ochrata* Dworakowska, 1971 from Taiwan were so far reported from China. We describe a new species from Yunnan Province, China and provide illustrations for both the new species and *S. equata* (Singh) recorded for the first time from China.

Methods and materials

The specimens were obtained by sweep net method and were studied under Olympus SZX7 and CX41 microscopes. Morphological techniques and terminology follow Dietrich and Dmitriev (2006). Measurements of the new species are given in millimeters; body length is measured from the apex of the head to the apex of the fore wing in repose. All specimens examined are deposited to the collection of the Insititute of Entomology, Guizhou University, Guiyang, China (GUGC).

Taxonomy

Key to species of *Seriana* from China

1 Aedeagus with paired processes **2**
– Aedeagus with unpaired processes (Figs. 18, 19)... ***S. indefinita* Dworakowska**
2 The paired processes arising from the base of aedeagual shaft (Figs. 6, 7) ..... ***S. menglaensis* sp. n.**
– The paired processes arising from the midlength of aedeagual shaft..... **3**
3 The paired processes shorter, hook-like (Figs. 16, 17)..... ***S. equata* (Singh)**
– The paired processes longer, finger-like (Figs. 20, 21)..... ***S. ochrata* Dworakowska**

Seriana menglaensis Song & Li, sp. n.

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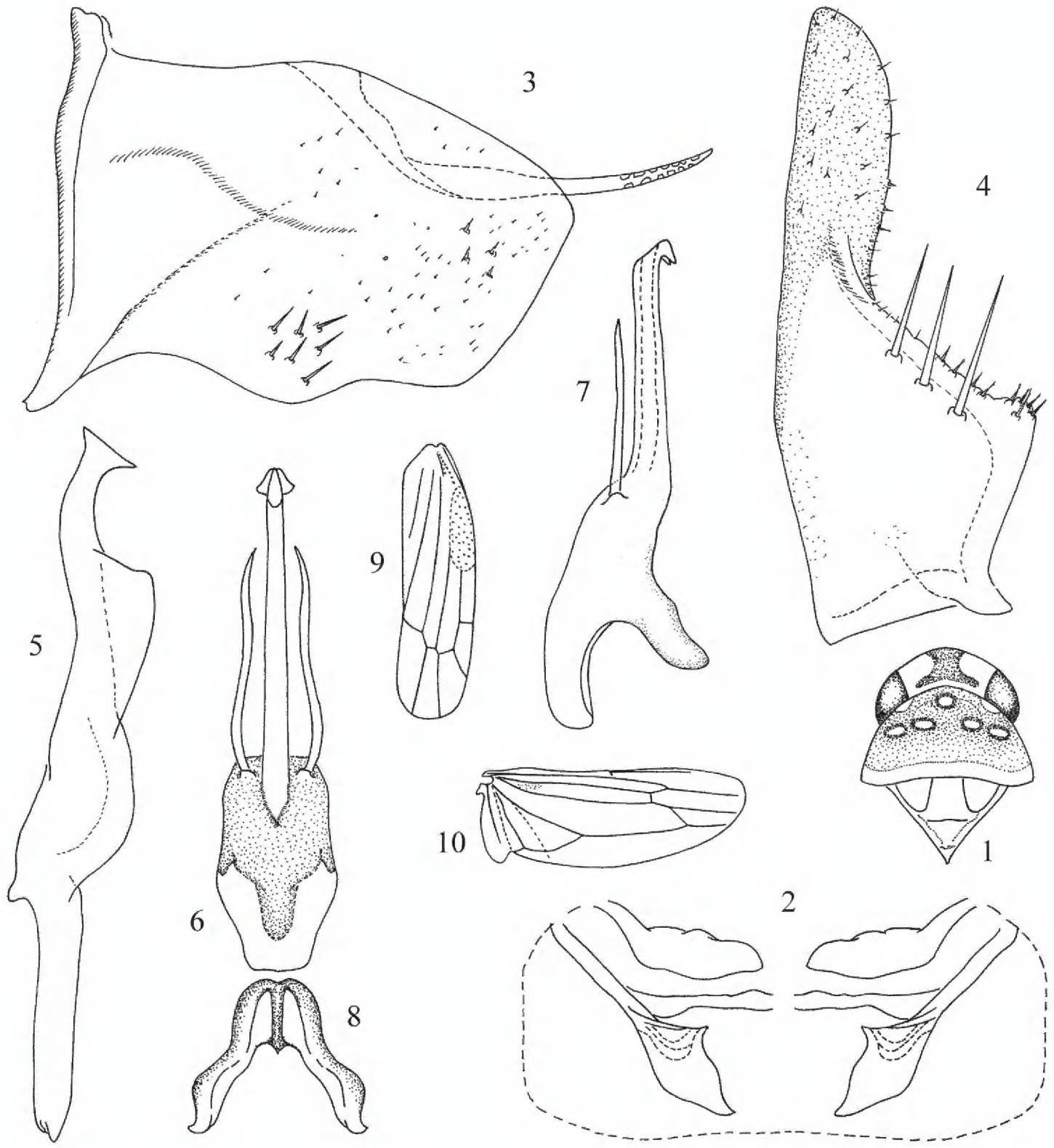
http://species-id.net/wiki/Seriana_menglaensis
Figures 1–10

Description. General color fuscous. Head (Fig. 1) with vertex dirty yellow, with an irregular brown spot at anterior margin medially; eyes black. Pronotum (Fig. 1) with



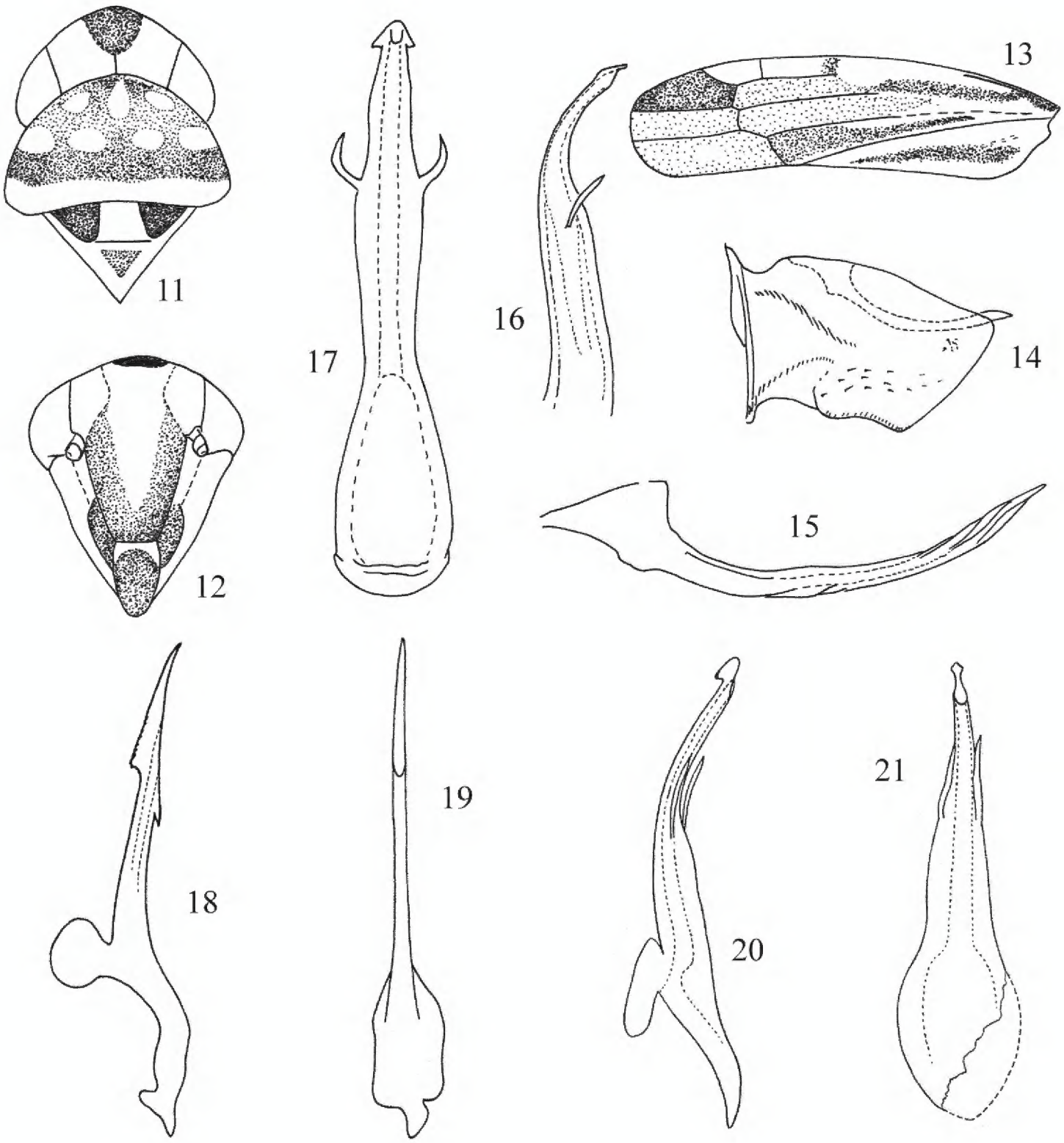
Figures 1–10. *Seriana menglaensis* Song & Li, sp. n. (♂) **1** Head and thorax, dorsal view **2** Abdominal apodemes **3** Pygofer lobe, lateral view **4** Subgenital plate **5** Style **6** Aedeagus, ventral view **7** Aedeagus, lateral view **8** Connective **9** Forewing **10** Hind wing.

five whitish oval impressed patches near anterior margin. Forewing light testaceous, without markings; brochosome field blackish brown.

Head (Fig. 1) distinctly narrower than pronotum; vertex bluntly rounded.

Abdominal apodemes (Fig. 2) small, acuminate apically, not extended beyond hind margin of 3rd sternite.

Pygofer lobe (Fig. 3) broad, with distinct oblique dorsolateral internal ridge, numerous macrosetae at lower basal angle. Pygofer dorsal appendage very long and fused with dorsal margin of pygofer. Subgenital plate (Fig. 4) with three long macrosetae and short rigid setae at upper margin subbasally; several microsetae scattered on apical



Figures 11–21. *Seriana equata* (Singh, 1969) rec. n. (after Dworakowska, Nagaich & Singh, 1978) **11** Head and thorax, dorsal view **12** Face **13** Fore wing **14** Pygofer lobe, lateral view **15** Pygofer dorsal appendage **16** Aedeagus, lateral view **17** Aedeagus, ventral view; *Seriana indefinita* Dworakowska, 1971 **18** Aedeagus, lateral view **19** Aedeagus, ventral view; *Seriana ochrata* Dworakowska, 1971 **20** Aedeagus, lateral view **21** Aedeagus, ventral view. (after Dworakowska, 1971)

portion. Style (Fig. 5) long, apex truncate; preapical lobe large. Connecitve (Fig. 8) Y-shaped, stem strong, central lobe absent. Aedeagus (Figs. 6, 7) with shaft long and straight, with two pairs processes, one pair very long, arising from basolateral part of shaft; another pair placed apically very short, lamellate; gonopore at apex, on ventral margin, dorsal apodeme short, weakly expanded.

Measurement. Body length males 3.2 mm.

Type material. *Holotype*, male, China: Yunnan Prov., Mengla County, at light, 23 July 2008, coll. Yuehua Song. *Paratype*: one male, same data as holotype.

Remarks. The new species is similar to *S. ochrata* Dworakowska (1971), but can be distinguished from the latter by the aedeagal shaft longer and straighter, similar in width throughout length in ventral view; the paired long processes arising from the base of aedeagal shaft, not at midlength and the dorsal apodeme small.

Etymology. The new species is named after its type locality: Mengla.

***Seriana equata* (Singh, 1969), rec. n.**
http://species-id.net/wiki/Seriana_equata
Figures 11–17

Zygina equata Singh, 1969: 344, figs 20-23
Empoascanara equata (Singh, 1969) (Sohi, 1976: 204)
Seriana equata (Singh, 1969) (Dworakowska and Viraktamath 1975: 529, no figures)
Seriana punjabensis Dworakowska, Nagaich & Singh, 1978: 246, figs 38-42 (Syn. by Sohi and Dworakowska 1983: 180)

Material examined. One male, China: Yunnan Prov., Xishuangbanna, Original Forest Park, 21 July 2008, coll. YUEHUA SONG; one male, China: Henan Prov., Luanchuan, Heyu, 19 August 2008, coll. JIANDA LI.

Host plant. Grasses, potato, black gram, cowpea, Egyptian clover, groundnut, linseed, lucerne, musk melon, spinach, sweet potato, sunnhemp (Sohi and Dworakowska 1983).

Distribution. India; China (Henan, Yunnan).

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